Providing bus shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division.

EMB

First and Final

(Pre-Measurement Sheet and Measurement Sheet)

Providing bus shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division.

Pre-Measurement Sheet

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:Providing bus shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No.1		Earthwork in surface excavation in hard soil for leveling and lowering he ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavted surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications.As per the direction of the Engineer Incharge							
Measurements taken on		18-10-2021							
		NES BUS STOP							
		Levelling	Cum	1	15.5	4	0.3	18.60	
		KEMEGOWDA BUS STAND							
		LEVELLING	Cum	1	15.5	4	0.3	18.60	
		RAIL WHEEL FACTORY BUS STOP							
		Levelling	Cum	1	15.5	4	0.3	18.60	
		SHREE VRUTHA VEERANJANEYA SWAMY BUS STOP							
		Levelling	Cum	1	15.5	4	0.3	18.60	
		ANANTHPURA GATE BUS STOP							
		Levelling	Cum	1	15.5	4	0.3	18.60	
							Total Executed Quantity	**93.00**	
							Qty Carried to Summary	**93.00**	

CONTRACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:Providing bus shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No.2		Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either In pits, or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. In depth Including dressing the bottom and sides of pits and trenches. stacking the excavated soil dear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications with al lead and lift and as per the directions of the Engineer incharge							
Measurements taken on		25-10-2021							
		NES BUS STOP							
		Foundation	Cum	1	10.7	0.6	0.6	3.85	
		Footing	Cum	3	0.8	0.8	1.3	2.50	
		KEMEGOWDA BUS STAND							
		Foundation	Cum	1	11.08	0.6	0.6	3.99	
		Footing	Cum	3	0.8	0.8	1.4	2.69	
		RAIL WHEEL FACTORY BUS STOP							
		Foundation	Cum	1	11.54	0.6	0.6	4.15	
		Footing	Cum	3	0.8	0.8	1.4	2.69	
		SHREE VRUTHA VEERANJANEYA SWAMY BUS STOP							
		Foundation	Cum	1	10.36	0.6	0.6	3.73	
		Footing	Cum	3	0.8	0.8	1.3	2.50	
		ANANTHPURA GATE BUS STOP							
		Foundation	Cum	1	10.7	0.6	0.6	3.85	
		Footing	Cum	3	0.8	0.8	1.3	2.50	
							Total Executed Quantity	32.44	
							Qty Carried to Summary	32.44	

CONTRACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:Providing bus shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item No.3		Providing and laying in position plain cement concrete of mix(M10) 1 :3:6 with OPC cement 220kgs, with 40mm and down size graded granite metal coarse aggregates 0.892cum and fine aggregates 0.465cum machine mixed, machine mixed concrete laid In layers not exceeding 15 cms thick, well compacted in foundation and plinth. cost of all materials, labour, HOM of machinery, curing complete as per specifications.As per direction of the Engineer-in-Charge							
Measurements taken on		29 - 10 - 2021							
		NES BUS STOP							
		Foundation	Cum	1	10.7	0.6	0.2	1.28	
		Footing	Cum	3	0.8	0.8	0.175	0.34	
		Shelter Flooring	Cum	1	10.7	2.8	0.175	5.24	
			Cum	1	2.5	4.45	0.175	1.95	
			Cum	1	2.35	4.45	0.175	1.83	
		KEMEGOWDA BUS STAND							
		Foundation	Cum	1	11.08	0.6	0.2	1.33	
		Footing	Cum	3	0.8	0.8	0.2	0.38	
		Shelter Flooring	Cum	1	11.08	3.15	0.2	6.98	
			Cum	1	2.5	4.45	0.2	2.23	
			Cum	1	2.35	4.45	0.2	2.09	
		RAIL WHEEL FACTORY BUS STOP							
		Foundation	Cum	1	11.54	0.6	0.2	1.38	
		Footing	Cum	3	0.8	0.8	0.2	0.38	
		Shelter Flooring	Cum	1	11.54	3	0.175	6.06	
			Cum	1	2.5	4.45	0.175	1.95	
			Cum	1	2.35	4.45	0.175	1.85	
		SHREE VRUTHA VEERANJANEYA SWAMY BUS STOP							
		Foundation	Cum	1	10.36	0.6	0.2	1.24	
		Footing	Cum	3	0.8	0.8	0.175	0.34	
		Shelter Flooring	Cum	1	10.36	3.1	0.2	6.42	
			Cum	1	2.5	4.45	0.175	1.95	
			Cum	1	2.35	4.45	0.175	1.83	
		ANANTHPURA GATE BUS STOP							
		Foundation	Cum	1	10.7	0.6	0.175	1.12	
		Footing	Cum	3	0.8	0.8	0.175	0.34	
		Shelter Flooring	Cum	1	10.7	2.8	0.175	5.24	
			Cum	1	2.5	4.45	0.175	1.95	
			Cum	1	2.35	4.45	0.175	1.83	
							Total Executed Quantity	57.51	
							Qty Carried to Summary	57.51	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬ್ರ.ಬೆ.ಮ.ಪಾ. ಬೆಂಗಳೂರು-10

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

ame of Work:Providing bus shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No.4		Providing and constructing granite/ trap/basalt size stone masonry in foudation in CM 1:6 stone hammed dressed in courses not less than 20cms high, bond stones at two m apart in each course including cost of material labour, curing etc complete as per specifications and direction of the Engineer-in-Charge							
Measurements taken on		6-01-2021							
		NES BUS STOP							
			Cum	1	10.7	0.45	0.4	1.93	
		KEMEGOWDA BUS STAND							
			Cum	1	11.08	0.45	0.45	2.24	
		RAIL WHEEL FACTORY BUS STOP							
			Cum	1	11.64	0.45	0.45	2.34	
		SHREE VRUTHA VEERANJANEYA SWAMY BUS STOP							
			Cum	1	10.36	0.45	0.45	2.10	
		ANANTHPURA GATE BUS STOP							
			Cum	1	10.7	0.45	0.4	1.93	
							Total Executed Quantity	10.53	
							Qty Carried to Summary	10.53	

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:Providing bus shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No.5		Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement at 320 kgs with 20mm and down size graded granite metal, 0.70 cum and fine aggregate at 0.47 cum with super plasticizer at 3 ltrs confirming to IS 9103 - 1999 re affirmed 2008 machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, colums pillars, posts, struts, buttresse, bed blocks, anchor blocks & plinths etc., Including cost of all materials, labour, HOM of machinery, curing complete but excluding cost of reinforcement as per specfications. As per direction of the Engineer-in-Charge							
Measurements taken on		15-11-2021							
		NES BUS STOP							
		Footing	Cum	1	0.8	0.8	0.45	0.29	
		Pedestal	Cum	3	0.6	0.6	0.8	0.86	
		Plinth Beam	Cum	1	10.7	0.6	0.2	1.28	
		KEMEGOWDA BUS STAND							
		Footing	Cum	1	0.8	0.8	0.45	0.29	
		Pedestal	Cum	3	0.6	0.6	0.8	0.86	
		Plinth Beam	Cum	1	11.08	0.6	0.25	1.66	
		RAIL WHEEL FACTORY BUS STOP							
		Footing	Cum	1	0.8	0.8	0.45	0.29	
		Pedestal	Cum	3	0.6	0.6	0.8	0.86	
		Plinth Beam	Cum	1	11.5	0.6	0.2	1.38	
		SHREE VRUTHA VEERANJANEYA SWAMY BUS							
		Footing	Cum	1	0.8	0.8	0.45	0.29	
		Pedestal	Cum	3	0.6	0.6	0.8	0.86	
		Plinth Beam	Cum	1	10.36	0.6	0.2	1.24	
		ANANTHPURA GATE BUS STOP							
		Footing	Cum	1	0.8	0.8	0.45	0.29	
		Pedestal	Cum	3	0.6	0.6	0.8	0.86	
		Plinth Beam	Cum	1	10.7	0.6	0.2	1.28	
							Total Executed Quantity	12.62	
							Qty Carried to Summary	12.62	

CONTRACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:Providing bus shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item No.6		Providing and removing centering. shuttering. strutting, propping etc , and removal of form work for foundations. footings, bases of columns for mass concrete including cost of all materials. labour complete as per specifications. As per direction of the Engineer-in-Charge							
Measurements taken on		15-11-2024							
		NES BUS STOP							
		Footing	Cum	3	3.2		0.45	4.32	
		Pedestal	Cum	3	2.4		0.8	5.76	
		KEMEGOWDA BUS STAND							
		Footing	Cum	3	3.2		0.45	4.32	
		Pedestal	Cum	3	2.4		0.8	5.76	
		RAIL WHEEL FACTORY BUS STOP							
		Footing	Cum	3	3.2		0.45	4.32	
		Pedestal	Cum	3	2.4		0.8	5.76	
		SHREE VRUTHA VEERANJANEYA SWAMY BUS STOP							
		Footing	Cum	3	3.2		0.45	4.32	
		Pedestal	Cum	3	2.4		0.8	5.76	
		ANANTHPURA GATE BUS STOP							
		Footing	Cum	3	3.2		0.45	4.32	
		Pedestal	Cum	3	2.4		0.8	5.76	
							Total Executed Quantity	50.40	
							Qty Carried to Summary	50.40	

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:Providing bus shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No.7		Providing mild steel reinforcement for R.C.C work Including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tying with binding Wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications As per direction of the Engineer-in-Charge							
Measurements taken on									
		Steel Calculation	Tonne		from Steel Calculation Sheet			1.13	
							Total Executed Quantity	1.13	
							Qty Carried to Summary	1.13	

ASSISTANT EXECUTIVE ENGINEER

me of Work:Providing bus shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division

Steel calculation sheet

PREMEASUREMENT SHEET

SI.NO	Description	Nos	BAR DIA	No. Bars	Total No. bars	L	Crank length (42d)	Actual Length	Total Length	Weight	Total weight
Chainage			mm			m	m	m	m	kg/m	Kg's
From To											
Item No. 7	Providing mild steel reinforcement for R.C.C work Including straightening, cutting, bending, hooking. placing in position lapping and / or welding wherever required. tying with binding Wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials. labour, HOM of machinery complete as per specifications As per direction of the Engineer-in-Charge										
1	Isolated Footings										
Measurements taken on	15-11-2021										
	Nes Bus stop										
	C1										
	Bars Along Long Direction	3	12	9	27	0.80	0.0	0.80	21.60	0.887814	19.18
	Bars Along Short Direction	3	12	9	27	0.80	0.0	0.80	21.60	0.887814	19.18
	Kempegowda bus stand										
	C1										
	Bars Along Long Direction	3	12	9	27	0.80	0.0	0.80	21.60	0.887814	19.18
	Bars Along Short Direction	3	12	9	27	0.80	0.0	0.80	21.60	0.887814	19.18
	Rail Wheel Factory bus stop										
	C1										
	Bars Along Long Direction	3	12	9	27	0.80	0.0	0.80	21.60	0.887814	19.18
	Bars Along Short Direction	3	12	9	27	0.80	0.0	0.80	21.60	0.887814	19.18
	Shree vrutha veeranjaneya Swamy Bus Stop										
	C1										
	Bars Along Long Direction	3	12	9	27	0.80	0.0	0.80	21.60	0.887814	19.18
	Bars Along Short Direction	3	12	9	27	0.80	0.0	0.80	21.60	0.887814	19.18

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ ಕಛೇರಿ,
ಕಾ.ಪ.ಇ. ಬೆಂಗಳೂರು-106

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

me of Work:Providing bus shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division

Steel calculation sheet

PREMEASUREMENT SHEET

SI.NO	Description	Nos	BAR DIA	No. Bars	Total No. bars	L	Crank length (42d)	Actual Length	Total Length	Weight	Total weight
Chainage			mm			m	m	m	m	kg/m	Kg's
From To											
	Ananthpura Gate Bus Stop										
	C1										
	Bars Along Long Direction	3	12	9	27	0.80	0.0	0.80	21.60	0.887814	19.18
	Bars Along Short Direction	3	12	9	27	0.80	0.0	0.80	21.60	0.887814	19.18
									Sub Total		191.77
2	COLUMNS										
	upto Plinth Beam										
Measurements taken on		18-11-2021									
	Nes Bus stop										
	C1	3	20	16	48	0.80	0.00	0.80	38.40	2.46615	94.70
	Rectangle Rings @ 150 c/c	3	10	7	21	2.00	0.00	2.00	42.00	0.616538	25.89
	Kempegowda bus stand										
	C1	3	20	16	48	0.80	0.00	0.80	38.40	2.46615	94.70
	Rectangle Rings @ 150 c/c	3	10	7	21	2.00	0.00	2.00	42.00	0.616538	25.89
	Rail Wheel Factory bus stop										
	C1	3	20	16	48	0.80	0.00	0.80	38.40	2.46615	94.70
	Rectangle Rings @ 150 c/c	3	10	7	21	2.00	0.00	2.00	42.00	0.616538	25.89
	veeranjaneya Swamy Bus Stop										
	C1	3	20	16	48	0.80	0.00	0.80	38.40	2.46615	94.70
	Rectangle Rings @ 150 c/c	3	10	7	21	2.00	0.00	2.00	42.00	0.616538	25.89
	Ananthpura Gate Bus Stop										
	C1	3	20	16	48	0.80	0.00	0.80	38.40	2.46615	94.70
	Rectangle Rings @ 150 c/c	3	10	7	21	2.00	0.00	2.00	42.00	0.616538	25.89
									Sub Total		602.97

ASSISTANT EXECUTIVE ENGINEER

Name of Work:Providing bus shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division

Steel calculation sheet

PREMEASUREMENT SHEET

SI.NO	Description	Nos	BAR DIA	No. Bars	Total No. bars	L	Crank length (42d)	Actual Length	Total Length	Weight	Total weight
Chainage			mm			m	m	m	m	kg/m	Kg's
From To											
3	**PLINTH BEAM**										
Measurements taken on	19-11-2021										
	Nes Bus stop										
	PB1	1									
	top bars		12	2	2	10.70	0.00	10.70	21.40	0.887814	19.00
	bottom bars		12	2	2	10.70	0.00	10.70	21.40	0.887814	19.00
	2L-#8mm @200c/cstirrups		8	55	55	1.30	0.00	1.30	70.85	0.394584	27.96
	Kempegowda bus stand										
	PB2	1									
	top bars		12	2	2	11.08	0.00	11.08	22.16	0.887814	19.67
	bottom bars		12	2	2	11.08	0.00	11.08	22.16	0.887814	19.67
	2L-#8mm @200c/cstirrups		8	56	56	1.30	0.00	1.30	73.32	0.394584	28.93
	Rail Wheel Factory bus stop										
	PB3	1									
	top bars		12	2	2	11.54	0.00	11.54	23.08	0.887814	20.49
	bottom bars		12	2	2	11.54	0.00	11.54	23.08	0.887814	20.49
	2L-#8mm @200c/cstirrups		8	59	59	1.30	0.00	1.30	76.31	0.394584	30.11
	Shree vrutha veeranjaneya Swamy Bus Stop										
	PB4										
	top bars		13	2	2	10.36	0.00	10.36	20.72	0.887814	18.40
	bottom bars		12	2	2	10.36	0.00	10.36	20.72	0.887814	18.40
	2L-#8mm @200c/cstirrups		8	53	53	1.30	0.00	1.30	68.64	0.394584	27.08
	Ananthpura Gate Bus Stop										
	PB5	1									
	top bars		12	2	2	10.70	0.00	10.70	21.40	0.887814	19.00
	bottom bars		12	2	2	10.70	0.00	10.70	21.40	0.887814	19.00
	2L-#8mm @200c/cstirrups		8	55	55	1.30	0.00	1.30	70.85	0.394584	27.96
										Sub Total	335.16
										Total Steel Quantity in Kg	1129.90
										Total Steel Quantity in tonne	1.13

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

CONTRACTOR

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:Providing bus shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No.8		Providing and laying in position plain cement concrete of Mix 1 :2:4 with cement @ 240 kgs, with 20 mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour HOM of machinery curing complete as per specification. As per direction of the Engineer-in-Charge							
Measurements taken on		18-11-2021							
		NES BUS STOP							
		Shelter Flooring	Cum	1	10.7	2.8	0.15	4.49	
			Cum	1	2.5	4.45	0.1	1.11	
			Cum	1	2.35	4.45	0.1	1.05	
		KEMEGOWDA BUS STAND							
		Shelter Flooring	Cum	1	11.08	3.15	0.15	5.24	
			Cum	1	2.5	4.45	0.1	1.11	
			Cum	1	2.35	4.45	0.1	1.05	
		RAIL WHEEL FACTORY BUS STOP							
		Shelter Flooring	Cum	1	11.54	3	0.15	5.19	
			Cum	1	2.5	4.45	0.1	1.11	
			Cum	1	2.35	4.45	0.1	1.05	
		SHREE VRUTHA VEERANJANEYA SWAMY BUS STOP							
		Shelter Flooring	Cum	1	10.7	3.1	0.15	4.82	
			Cum	1	2.5	4.45	0.1	1.11	
			Cum	1	2.35	4.45	0.1	1.05	
		ANANTHPURA GATE BUS STOP							
		Shelter Flooring	Cum	1	10.7	2.8	0.1	3.00	
			Cum	1	2.5	4.45	0.1	1.11	
			Cum	1	2.35	4.45	0.1	1.05	
							Total Executed Quantity	33.53	
							Qty Carried to Summary	33.53	

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:Providing bus shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No.13		Lead for earthwork and disposal of debris shall be payable at carriage rates by mechanical means including loading and unloading for earthwork (upto 10 kms) complete with all lead & lift & as per the direction of the Engineer in charges.							
		Quantity Vide from Item No.1+2	Cum					125.44	
							Total Executed Quantity	125.44	
							Qty Carried to Summary	125.44	

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

Providing bus shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division.

Measurement Sheet

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Providing bus shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division

MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.1		Earthwork in surface excavation in hard soil for leveling and lowering he ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1 5m, excavted surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications As per the direction of the Engineer Incharge									
Measurements taken on											
		Cum									
		Vide Total executed Quantity from premeasuremet Page no.						**93.00**			
		Total Executed Quantity						**93.00**			
		Tender Quantity						**93.00**			
		Now to be Paid Quantity						**93.00**	275 69	25640 00	
Item No.2		Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either In pits, or in trenches 1 5m and above in width, in hard soil not exceeding 1 5 m In depth Including dressing the bottom and sides of pits and trenches stacking the excavated soil dear from edges of excavation with lead upto 50 m after breaking of clods complete as per specifications with al lead and lift and as per the directions of the Engineer incharge									
Measurements taken on											
		Cum									
		Vide Total executed Quantity from premeasuremet Page no.						**32.44**			
		Total Executed Quantity						**32.44**			
		Tender Quantity						**32.76**			
		Now to be Paid Quantity						**32.44**	497 12	16127	
Item No.3		Providing and laying in position plain cement concrete of mix(M10) 1 3 6 with OPC cement 220kgs, with 40mm and down size graded granite metal coarse aggregates 0 892cum and fine aggregates 0 465cum machine mixed, machine mixed concrete laid In layers not exceeding 15 cms thick, well compacted in foundation and plinth cost of all materials, labour, HOM of machinery, curing complete as per specifications As per direction of the Engineer-in-Charge									
Measurements taken on											
		Cum									
		Vide Total executed Quantity from premeasuremet Page no.						**57.51**			
		Total Executed Quantity						**57.51**			
		Tender Quantity						**57.59**			
		Now to be Paid Quantity						**57.51**	6020 86	346281	
Item No.4		Providing and constructing granite/ trap/basalt size stone masonry in foudation in CM 1 6 stone hammed dressed in courses not less than 20cms high, bond stones at two m apart in each course including cost of material labour, curing etc complete as per specifications and direction of the Engineer-in-Charge									
Measurements taken on											
		Cum									
		Vide Total executed Quantity from premeasuremet Page no.						**10.53**			
		Total Executed Quantity						**10.53**			
		Tender Quantity						**10.62**			
		Now to be Paid Quantity						**10.53**	5088 55	53585	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬೆ ಮ ನ ಪ, ಬೆಂಗಳೂರು-64

ASSISTANT EXECUTIVE ENGINEER

MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.5		Providing and laying in position reinforced cement concrete of design m~ M25 with OPC cement at 320 kgs with 20mm and down size graded granite metal, 0.70 cum and fine aggregate at 0.47 cum with super plasticizer at 3 ltrs confirming to IS 9103 -1999 re affirmed 2008 machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, colums pillars, posts, struts, buttresse, bed blocks, anchor blocks & plinths etc., Including cost of all materials, labour, HOM of machinery, curing complete but excluding cost of reinforcement as per specifications. As per direction of the Engineer-in-Charge									
Measurements taken on											
		Cum									
		Vide Total executed Quantity from premeasuremet Page no.						12.62			
		Total Executed Quantity						12.62			
		Tender Quantity						12.62			
		Now to be Paid Quantity						12.62	6636.28	83737	
Item No.6		Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. As per direction of the Engineer-in-Charge									
Measurements taken on											
		Cum									
		Vide Total executed Quantity from premeasuremet Page no.						50.40			
		Total Executed Quantity						50.40			
		Tender Quantity						50.40			
		Now to be Paid Quantity						50.40	285.65	14397	
Item No.7		Providing mild steel reinforcement for R.C.C work Including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tying with binding Wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. As per direction of the Engineer-in-Charge									
Measurements taken on											
		Tonne									
		Vide Total executed Quantity from premeasuremet Page no.						1.13			
		Total Executed Quantity						1.13			
		Tender Quantity						1.14			
		Now to be Paid Quantity						1.13	83713.12	94588	
Item No.8		Providing and laying in position plain cement concrete of Mix 1 :2 :4 with cement @ 240 kgs, with 20 mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour HOM of machinery curing complete as per specification. As per direction of the Engineer-in-Charge									
Measurements taken on											
		Cum									
		Vide Total executed Quantity from premeasuremet Page no.						33.53			
		Total Executed Quantity						33.53			
		Tender Quantity						33.51			
		Now to be Paid Quantity									
		Quantity Limited to						33.51	6281.18	210482.3418	

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ASSISTANT EXECUTIVE ENGINEER

MEASUREMENT SHEET

FIRST AND FINAL BILL

ge in m	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
To No.9	Providing and fixing granite floorng in combinatin of 19mm thick (Avg) gang saw water cut LAKARED granite with 86% and with 14% of 19mm thick (avg) black granite in CM 1 :4 proportion with a coat of rough plastering using CM 1 :4, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, groovesin joints including cost of curing etc , complete including cost and conveyance of all macrials, l mortar, labur for all items of work, HOM of equipment etc , complete as per specification As per direction of the Engineer-in-Charge									
rements en on										
	NES BUS STOP									
	Shelter Flooring	Sqm	1	11 3	2 8		31 64			
		Sqm	1	2 5	4 45		11 13			
		Sqm	1	2 35	4 45		10 46			
	Skirting	Sqm	1	28 2	0 4		11 28			
	KEMEGOWDA BUS STAND									
	Shelter Flooring	Sqm	1	11 1	3 15		34 97			
		Sqm	1	2 5	4 45		11 13			
		Sqm	1	2 35	4 45		10 46			
	Stairs-rise	Sqm	2	3 75	0 2		1 50			
	Stairs-tread	Sqm	1	3 75	0 25		0 94			
	Skirting	Sqm	1	28 5	0 4		11 40			
	RAIL WHEEL FACTORY BUS STOP									
	Shelter Flooring	Sqm	1	11 8	3		35 40			
		Sqm	1	2 5	4 45		11 13			
		Sqm	1	2 35	4 45		10 46			
	Skirting	Sqm	1	29 6	0 4		11 84			
	SHREE VRUTHA VEERANJANEYA SWAMY BUS STOP									
	Shelter Flooring	Sqm	1	7 3	4 45		32 55			
		Sqm	1	2 5	4 45		11 13			
		Sqm	1	2 35	4 45		10 46			
	Skirting	Sqm	1	27 2	0 4		10 88			
	ANANTHPURA GATE BUS STOP									
	Shelter Flooring	Sqm	1	11 3	2 8		31 64			
		Sqm	1	2 5	4 45		11 13			
		Sqm	1	2 35	4 45		10 46			
	Stairs-rise	Sqm	2	3 75	0 17		1 28			
	Stairs-tread	Sqm	1	3 75	0 37		1 39			
	Skirting	Sqm	1	28 2	0 37		10 43			
						Total Executed Quantity	335.04			
						Tender Quantity	335.06			
						Now to be Paid Quantity	335.04	3846 31	1288673.472	
Item No 10	Fabrication supplying and erecting MS tubular trusses of all spans with prefabricated steel applications using quality material and are durable, reliable and corrosion and abrasion resistant Welding shall confirm to latest structural welding code Quality shall be on various parameters like shape size design gauge and polish The entire trusses is anchored in RCC column by using 4 nos of M S anchor bolts at each support with 10mm thick base plate and shoe plate The work includes cutting straightening placing in position of M S pipes and welding wherever necessary and applying one Coat of redoxide primer coat to all the members including cost of all materials, labour charges, and hire charges of machineries for cutting welding grinding and erection equipments with all lead and lift transportation, etc complete as per specification As per direction of the Engineer-in-Charge									
Measurements taken on										
	Truss calculation	Kg		From Truss Calculation Sheet			16904 76			
						Total Executed Quantity	16904.76			
						Tender Quantity	16664.55			
						Now to be Paid Quantity				
						Quantity Limited to	16664.55	122.9	2048073.195	

ASSISTANT EXECUTIVE ENGINEER

calculation sheet

MEASUREMENT SHEET

BILL

	SHREE VRUTHA VEERANJANEYA SWAMY BUS STOP									
	RHS 200X100X8 Th @34.38kg/m	7	1	7	10.36	72.52	34.38	2493.24		
	ANANTHPURA GATE BUS STOP									
	RHS 200X100X8 Th @34.38kg/m	7	1	7	10.7	74.9	34.38	2575.06		
							TOTAL QUANTITY IN Kg	**16847.94**		
SL NO	**DESCRIPTION OF ITEMS**	**NO's**	**L**	**B**	**D**	**VOLUME**	**WEIGHT /PLATE (7850 Kg/m^3)**	**TOTAL WEIGHT**		
			m	m	m	m^3	weight			
3	**BASE PLATE**									
Measurements taken on										
	NES BUS STOP									
	BASE PLATE 2 nos 600X300X16mm TH	6	0.6	0.3	0.016	0.003	22.61	135.65		
	KEMPEGOWDA BUS STAND									
	BASE PLATE 2 nos 600X300X16mm TH				0.016	0.00288	22.608	135.648		
	RAIL WHEEL FACTORY BUS									
	BASE PLATE 2 nos 600X300X16mm TH	6	0.6	0.3	0.016	0.00288	22.608	135.648		
	SHREE VRUTHA VEERANJANEYA									
	BASE PLATE 2 nos 600X300X16mm TH	6	0.6	0.3	0.016	0.00288	22.608	135.648		
	ANANTHPURA GATE BUS STOP									
	BASE PLATE 2 nos 600X300X16mm TH	6	0.6	0.3	0.016	0.00288	22.608	135.648		
							TOTAL QUANTITY IN Kg	**678.24**		
	Bolt Calculation									
	Description	**nos of elements**	**nos of bolts**	**total numbers**	**BAR DIA IN mm**	**L in m**	**TOTAL Length in m**	**Weight in kg/m**	**Total weight Kg's**	
4	**Anchor bolt**									
Measurements taken on										
	NES BUS STOP									
	Anchor bolt	3	4	12	16	0.6	7.2	1.578336	11.36	
	KEMPEGOWDA BUS STAND									
	Anchor bolt	3	4	12	16	0.6	7.2	1.578336	11.36	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

CONTRACTOR

ASSISTANT ENGINEER

calculation sheet

MEASUREMENT SHEET

BILL

	RAIL WHEEL FACTORY BUS STOP									
	Anchor bolt	3	4	12	16	0.6	7.2	1.578336	11.36	
	SHREE VRUTHA VEERANJANEYA SWAMY BUS STOP									
	Anchor bolt	3	4	12	16	0.6	7.2	1.578336	11.36	
	ANANTHPURA GATE BUS STOP									
	Anchor bolt	3	4	12	16	0.6	7.2	1.578336	11.36	
								TOTAL QUANTITY	**56.82**	
								TOTAL STEEL QUANTITY IN Kg	**16904.76**	
								TOTAL STEEL QUANTITY IN TONNE	**16.90**	

ASSISTANT EXECUTIVE ENGINEER

MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.11		Providing and fixing of Aluminium composite panel fo approved make and colour for wall cladding for curved brick/ RCC/ stone walls & columns/ beams with necessary aluminium fame works at required level made out of 50x25x3mm C section or equalent. The panel panel thickness of 3mm. The surfaces will be finished with PVDF based coating on topsides and service coating on reverse sides would be in polyester paint. The system shall be fixed using GI brackets, aluminium L cleats and stainless stell bolts and nuts complete with sring washer and cap nuts and all other necessary accessories,sealing shall be done using weather sealant necessary rods etc , complete As per direction of the Engineer-in-Charge									
Measurements taken on											
		NES BUS STOP									
		For Bus shelter	Sqm	2	10.7		4.58	98.01			
		Side	Sqm	2	4.58		0.15	1.37			
		Drop Cladding	Sqm	1	10.7		1.8	19.26			
		KEMEGOWDA BUS STAND									
		For Bus shelter	Sqm	2	11.08		4.58	101.49			
		Side	Sqm	2	4.58		0.15	1.37			
		Drop Cladding	Sqm	2	11.08		1.8	39.89			
		RAIL WHEEL FACTORY BUS STOP									
		For Bus shelter	Sqm	2	11.54		4.6	106.17			
		Side	Sqm	2	4.6		0.2	1.84			
		Drop Cladding	Sqm	2	11.54		1.8	41.54			
		SHREE VRUTHA VEERANJANEYA SWAMY BUS STOP									
		For Bus shelter	Sqm	2	10.36		4.6	95.31			
		Side	Sqm	2	4.6		0.2	1.84			
		Drop Cladding	Sqm	2	10.36		1.8	37.30			
		ANANTHPURA GATE BUS STOP									
		For Bus shelter	Sqm	2	10.7		4.6	98.44			
		Side	Sqm	2	4.6		0.15	1.38			
		Drop Cladding	Sqm	2	10.7		1.8	38.52			
							Total Executed Quantity	683.74			
							Tender Quantity	683.70			
							Now to be Paid Quantity				
							Quantity Limited to	683.70	4871.55	3330678.735	

12/7/2022

ASSISTANT EXECUTIVE ENGINEER

MEASUREMENT SHEET
FIRST AND FINAL BILL

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.12		Providing and fixing stainless steel 304 grade for seating arrangement at bus shelter using 50mm dia 16 guage hollow pipe for verticals at 1 mtr center to centre for seating 25mm dia stainless steel pipe spaced at 0.75m regular intervals, and sides 25mm dia. Stainless steel hollow horizontal pipe 1.2 mtrs depth back rust 40mm dia stainless steel pipe of 0.4 mtr wide 1 mtr centre to centre for seating stainless steel perforated sheet of 1.5mm thick of width 0.45 mtr and for back rest stainless steel perforated sheet of 1.5mm thick are welded. The entire assembly is fixed as per specification etc complete including cost of materials, labour, HOM of machineries and electrical charges etc complete as per specification As per direction of the Engineer-in-Charge									
Measurements taken on											
		NES BUS STOP	m	1	10.68			10.68			
		KEMEGOWDA BUS STAND	m	1	10.7			10.70			
		RAIL WHEEL FACTORY BUS STOP	m	1	9.8			9.80			
		SHREE VRUTHA VEERANJANEYA SWAMY BUS STOP	m	1	9.77			9.77			
		ANANTHPURA GATE BUS STOP	m	1	9.8			9.80			
							Total Executed Quantity	50.75			
							Tender Quantity	50.75			
							Now to be Paid Quantity	50.75	31335	1590251.25	
Item No 13		Lead for earthwork and disposal of debris shall be payable at carriage rates by mechanical means including loading and unloading for earthwork (upto 10 kms) complete with all lead & lift & as per the direction of the Engineer in charges.									
		Vide Total executed Quantity from premeasuremet Page no.	Cum					125.44			
							Total Executed Quantity	125.44			
							Tender Quantity	125.56			
							Now to be Paid Quantity	125.44	97.77	12265	
									Total Amount	9114778.99	
									Add 12% GST	1093773.48	
									Total Amount	10208552.47	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಜೆ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-10ನೇ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಜೆ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-10ನೇ
EXECUTIVE ENGINEER